

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number  
**WO 2005/016936 A2**

(51) International Patent Classification<sup>7</sup>: **C07D 501/00**,  
A61K 31/545

(21) International Application Number:  
PCT/IB2004/002648

(22) International Filing Date: 13 August 2004 (13.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
1004/DEL/2003 14 August 2003 (14.08.2003) IN

(71) Applicant (for all designated States except US): **RAN-  
BAXY LABORATORIES LIMITED** [IN/IN]; 19, Nehru  
Place, New Delhi, Delhi 110019 (IN).

(71) Applicant and

(72) Inventor: **PRASAD, Mohan** [IN/IN]; House No. P-3/3,  
Phase - II, DLF Qutab Enclave, Gurgaon, Haryana 122001  
(IN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KUMAR, Yatendra**  
[IN/IN]; U-26/5, Phase - III, DLF Qutab Enclave, Gur-  
gaon, Haryana 122001 (IN). **SINGH, Kaptan** [IN/IN];

Flat No. B-02, Saket Enclave, Rajendra Nagar, Sahibabad,  
Ghaziabad, Uttar Pradesh 201005 (IN). **PRASAD, Ashok**  
[IN/IN]; 147/9, Dr. Gupta's Flats, Kishangarh, Vasant  
Kunj, New Delhi, Delhi 110070 (IN). **RICHHARIYA,**  
**Santosh** [IN/IN]; House No. 26, Ganesh Ward, Bina  
District, Sagar, Madhya Pradesh 470002 (IN).

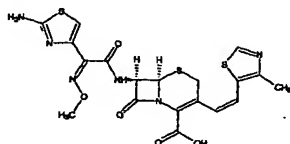
(74) Common Representative: **RANBAXY LABORATO-  
RIES LIMITED**; c/o DESHMUKH, Jay, R., 600 College  
Road East, Suite 2100, Princeton, NJ 08540 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

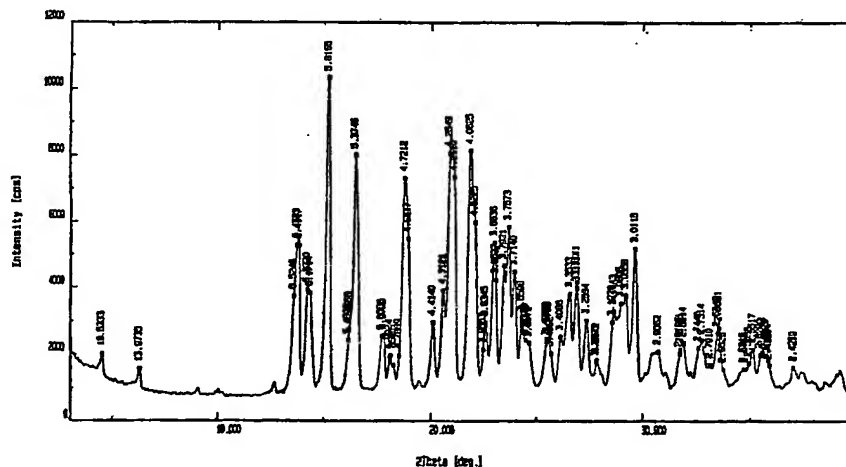
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: PROCESS FOR SELECTIVE PREPARATION OF Z-ISOMER OF CEFDITOREN AND PHARMACEUTICALLY AC-  
CEPTABLE SALTS AND ESTERS THEREOF



(I)



(57) Abstract: The present invention relates to a selective process for preparation of Z-isomer of cefditoren of Formula I and phar-  
maceutically acceptable salts and esters thereof. cefditoren possesses a wide spectrum of antibacterial activity against Gram-positive  
and Gram-negative bacteria.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *without international search report and to be republished upon receipt of that report*